

HCA-H01F



Fiber Optic Drop Cable Assembly, PRODIGY™ Hardened full size Connector Core to Stub, 3.4mm Indoor/outdoor round Cable

- Cable assembly with the Prodigy™ small form hardened connector
- Compact and small footprint, space-saving design for high-density environments
- Compatible with multiple hardened connectors

Product Classification

Regional Availability	EMEA
Product Type	Fiber drop cable assembly

General Specifications

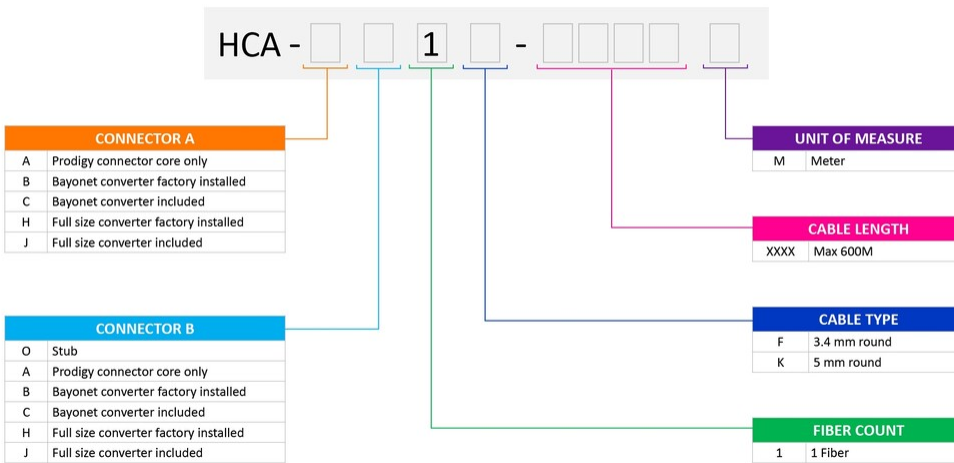
Cable Type	Dielectric - Round
Connector A, quantity	1
Color, boot A	Black
Color, connector A	Black
Interface, Connector A	Prodigy
Interface, Connector B	Unterminated
Jacket Color	Black
Total Fibers, quantity	1

Dimensions

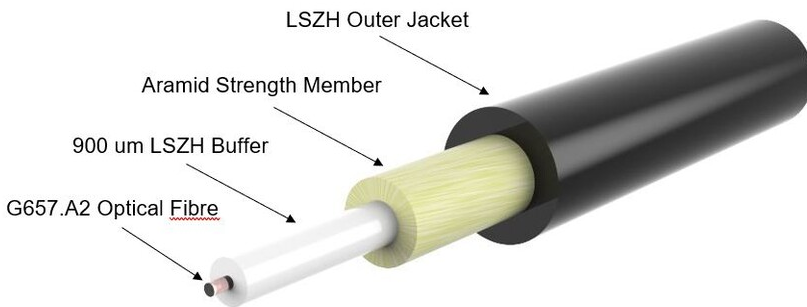
Cable Assembly Length Range (m)	3 – 609
Cable Outer Diameter	3.4 mm (0.13 in)

Ordering Tree

HCA-H01F



Representative Image



Material Specifications

Jacket Material Low Smoke Zero Halogen (LSZH)

Mechanical Specifications

Minimum Bend Radius, loaded 34 mm | 1.339 in

Tensile Load, long term, maximum 300 N | 67.443 lbf

Tensile Load, short term, maximum 620 N | 139.382 lbf

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Cable Crush Resistance, maximum	20 N/mm 114.203 lb/in
Dust Cap Pulling Force, minimum	445 N 100.04 lbf
Mating Durability, maximum	0.5 dB @ 100 cycles

Optical Specifications

Fiber Mode	Singlemode
Fiber Type	G.657.A2, TeraSPEED®
Insertion Loss, maximum, connector A	0.4 dB
Insertion Loss, typical	0.15 dB
Return Loss, minimum, connector A	65 dB

Environmental Specifications

Installation temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Operating Temperature	-30 °C to +65 °C (-22 °F to +149 °F)
Storage Temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Environmental Space	Indoor/Outdoor
Jacket UV Resistance	UV stabilized
Qualification Standards	IEC 61753-1

Packaging and Weights

Cable weight	9.2 kg/km 6.182 lb/kft
Included	Hardened full-size converter (1)

Included Products

760243583 D-001-DD-8G-M01BK/GY/20/AY /C	–	Fiber OSP cable, A2 Dual-sheathed HDPE Drop, LSZH Subunit, Loose buffer, Singlemode, G.657.A2, 1 fiber, Gel-filled, Meters jacket marking, Black jacket color
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Fiber OSP cable, A2 Dual-sheathed HDPE Drop, LSZH Subunit, Loose buffer, Singlemode, G.657.A2, 1 fiber, Gel-filled, Meters jacket marking, Black jacket color

Product Classification

Regional Availability	Asia Australia/New Zealand EMEA Latin America North America
Portfolio	CommScope®
Product Type	Fiber drop cable
Product Series	Z-DN

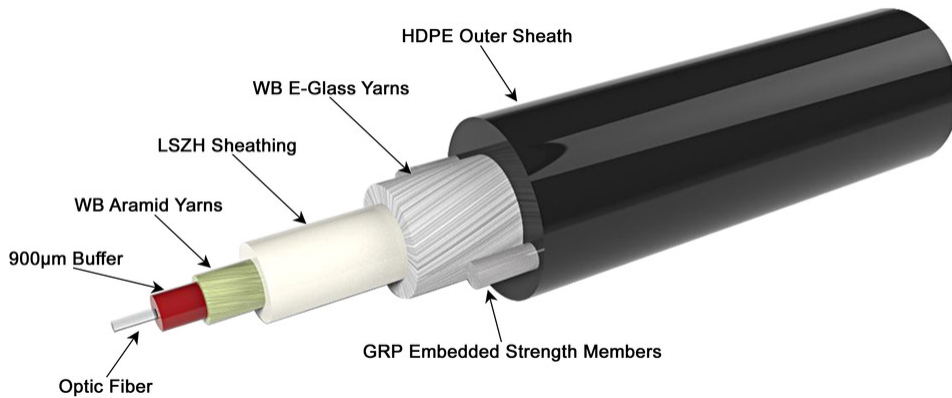
General Specifications

Cable Type	Outdoor drop with indoor subunit
Construction Type	Non-armored
Subunit Type	Gel-filled
Inner Jacket Color	White
Jacket Color	Black
Jacket Marking	Meters
Jacket Marking Method	Inkjet
Jacket Marking Text	COMMSCOPE 760243583 [DD/MM/YYYY] 1FO G657A2 [SERIAL NUMBER] [METRE MARK]
Subunit, quantity	1
Fibers per Subunit, quantity	1
Total Fiber Count	1

Dimensions

Buffer Tube/Subunit Diameter	2 mm 0.079 in
Diameter Over Jacket	5 mm 0.197 in

Representative Image



Material Specifications

Jacket Material	High density polyethylene (HDPE)
Inner Jacket Material	Low Smoke Zero Halogen (LSZH)

Mechanical Specifications

Minimum Bend Radius, loaded	50 mm 1.969 in
Tensile Load, long term, maximum	400 N 89.924 lbf
Tensile Load, short term, maximum	880 N 197.832 lbf
Compression	20 N/mm 114.203 lb/in
Compression Test Method	FOTP-41 IEC 60794-1 E3
Flex	35 cycles
Flex Test Method	FOTP-104 IEC 60794-1 E6
Impact	5 N-m 44.254 in lb
Impact Test Method	FOTP-25 IEC 60794-1 E4
Strain	See long and short term tensile loads
Strain Test Method	FOTP-33 IEC 60794-1 E1
Twist	10 cycles
Twist Test Method	FOTP-85 IEC 60794-1 E7

Optical Specifications

Fiber Type	G.657.A2 G.657.A2, TeraSPEED®
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Environmental Specifications

760243583 | D-001-DD-8G-M01BK/GY/20/AY/C

Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Cable Qualification Standards	IEC 60794-1-2 Telcordia GR-20
Environmental Space	Aerial, lashed Buried Drop Façade Underground (duct)
Jacket UV Resistance	UV stabilized
Water Penetration	24 h
Water Penetration Test Method	FOTP-82 IEC 60794-1 F5

Environmental Test Specifications

Cable Freeze	-2 °C 28.4 °F
Cable Freeze Test Method	FOTP-98 IEC 60794-1 F15
Heat Age	-40 °C to +85 °C (-40 °F to +185 °F)
Heat Age Test Method	IEC 60794-1 F9
Low High Bend	-30 °C to +60 °C (-22 °F to +140 °F)
Low High Bend Test Method	FOTP-37 IEC 60794-1 E11
Temperature Cycle	-40 °C to +70 °C (-40 °F to +158 °F)
Temperature Cycle Test Method	FOTP-3 IEC 60794-1 F1

Packaging and Weights

Cable weight	23.5 kg/km 15.791 lb/kft
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Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable